

NOMENCLATURE IN THE GENUS VITRINA

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P. Hesse (1923, Arch. Moll. 55, pp. 1-25, 81-115, 130-145) has presented a thorough revision of the Vitrininae of Europe and the neighboring regions on an anatomical basis. However, perhaps on account of inadequate library facilities, his nomenclature is not entirely correct. In an attempt to ascertain the proper generic and subgeneric names for the American *Vitrina limpida* Gould, I have necessarily reviewed the literature and believe that my results may be of general interest.

The following group-names need to be taken into account:

Vitrina Draparnaud (July 14, 1801, Tabl., pp. 33, 98); monotype: *V. pellucida*, with *Helix pellucida* Müll. (1774, Verm. II, p. 15) in synonymy, but description, at least in Hist. (1805, p. 119, pl. 8, figs. 34-37), was subsequently used as the foundation for *Helicolimax major* Fér. (1807, Ess., p. 47). Type subsequently designated by Fleming (1822, Encycl. Brit., Suppl. to 4th, 5th & 6th ed., vol. 5, p. 573): *Helix pellucida* Müller. [Emended to *Vitrinus* by Montfort (1810, Conch. Syst. II, p. 238), with *V. pellucidus* as type by original designation, but without separation of the two confused species.]

Helico-limax Fér. (Nov. 6, 1801, Mém. Soc. Méd. d'emul. Paris 4, p. 390); monotype (only species mentioned by name): *Helix pellucida* Müll. [Emended to *Helico-Limax* in 1807 and to *Helicolimax* in 1821.]

Cobresia Hübner (1810, Mon. Test. Baier. Landschn. Cobresien); type subsequently designated by Gray (1847, P. Z. S., p. 170), in syn. *Vitrina*: *V. pellucida*. Type now designated: *Cobresia vitrea* = *H. pellucida* Müller. [Hübner's terms limacoides and helicoides are shown by the text to be simply descriptive words.]

Hyalina Studer (1820, Syst. Verz., p. 11), not Schumacher (1817).

Limacina Hartmann (1821, N. Alp. I, p. 207), not Cuvier (1817).

Semilimax Agassiz (1846, Nomen. Zool.), nude name. *Semilimax* "Férussac" Gray (1847, p. 170); type by original designation: *Vitrina elongata* Drap. (1805, Hist., p. 120) = *Helix semilimax* Férussac (1802, Naturf. 29, p. 236). *Semilimax* Stabile (1859, Rev. & Mag. Zool. ser. 2, v. 11, p. 422); type subsequently designated by Fischer in Paulucci (1878, Mat. serv. et. faun. mal. t. f. Ital., p. 24): *Vitrina elongata* Drap.

Pagana Gistel (1848, Naturg., p. 168); substitute for *Vitrina* "Der Autoren"; type: *Helix pellucida* Müll.

Phenacolimax Stabile (1859, p. 422); type subsequently designated by P. Fischer (1878, p. 24): *Vitrina major* (Fér.).

Oligolimax P. Fischer in Paulucci (1878, pp. 1, 23); type by original designation (p. 24): *Vitrina paulucciae* Fischer (l. c.).

Gallandia Bourguignat (Aug., 1880, Desc. Nouv. gen. Gallandia); type by original designation: *Vitrina conoidea* Mart. (1874, in Fedtschenko's Put. Turkestan, vol. 2, pt. 1, p. 8), but from Mt. Olympe in Bithynia.

Trochovitrina "Schacko" O. Boettger (Oct., 1880, Jahrb. Mal. Ges. 7, p. 379); includes *Vitrina subcarinata* Bttg. (l. c.) and *Lampadia lederi* Bttg. (1878, Nach. D. Mal. Ges. 5, p. 121).

Vitrinopugio von Ihering (1892, Zeitschr. wiss. Zool. 54, p. 401); type subsequently designated by Hesse (1923, Arch. Moll. 55, p. 103): *V. elongatus* (Drap.) = *Vitrina semilimax* (Fér.).

Semilimacella Soós (1917, A. M. N. H. Budapest 15, pp. 94, 154); monotype: *Vitrina velebitica* Soós (l. c.).

Insulivitrina Hesse (1923, p. 131); type subsequently designated by Hesse (1924, Arch. Moll. 56, p. 226): *Vitrina lamarecki* (Fér.) = *Helicolimax lamareckii* Fér. (1821, Tabl. Lim., p. 25).

Tozzettia Hesse (1924, p. 226); type by substitution for *Targionia* Hesse (1923, p. 82), not Lindinger (1870), which has type by original designation: *V. bonellii* = *Vitrina*

bonelli Targioni-Tozzetti (1873, At. Soc. It. sc. nat. Milano 15, p. 322).

Eucobresia, new name for *Semilimax* Hesse (1923, p. 86); type: *Vitrina diaphana* Drap. (1805, Hist., p. 120), from France.

From the above data, if Hesse's genera are considered as subgenera and his subgenera as sections, the following classification results. For easy reference, I have added, after each group-name, its synonyms and the proper specific name of its type.

Genus *Vitrina* Draparnaud.

Subgenus *Vitrina* s. s.

Section *Vitrina* s. s. (+*Helicolimax*+*Cobresia*+*Pagana*). *V. pellucida* (Müll.).

Section *Eucobresia*, n. n. *V. diaphana* Drap.

Section *Oligolimax* P. Fischer. *V. paulucciae* P. Fisch.

Section *Gallandia* Bgt. (+*Trochovitrina*). *V. conoidea* Mart.

Subgenus *Phenacolimax* Stabile. *V. major* (Férussac).

Subgenus *Semilimax* Gray.

Section *Semilimax* s. s. (+*Vitrinopugio*+*Semilimacella*). *V. semilimax* (Fér.).

Section *Tozzettia* Hesse. *V. bonelli* Targioni-Tozzetti.

Subgenus *Insulivitrina* Hesse. *V. lamarckii* (Férussac).

NOTES AND NEWS

POISONOUS MUSSELS.—In his interesting and highly important article on "Mussel Poisoning in California, Dr. K. F. Meyer notes, among other facts, that the poison is believed to be due to a metabolic disturbance influenced by the food and low tone attendant upon spawning. Furthermore, these diseased mussels were subjected to the ebb and